

1/38

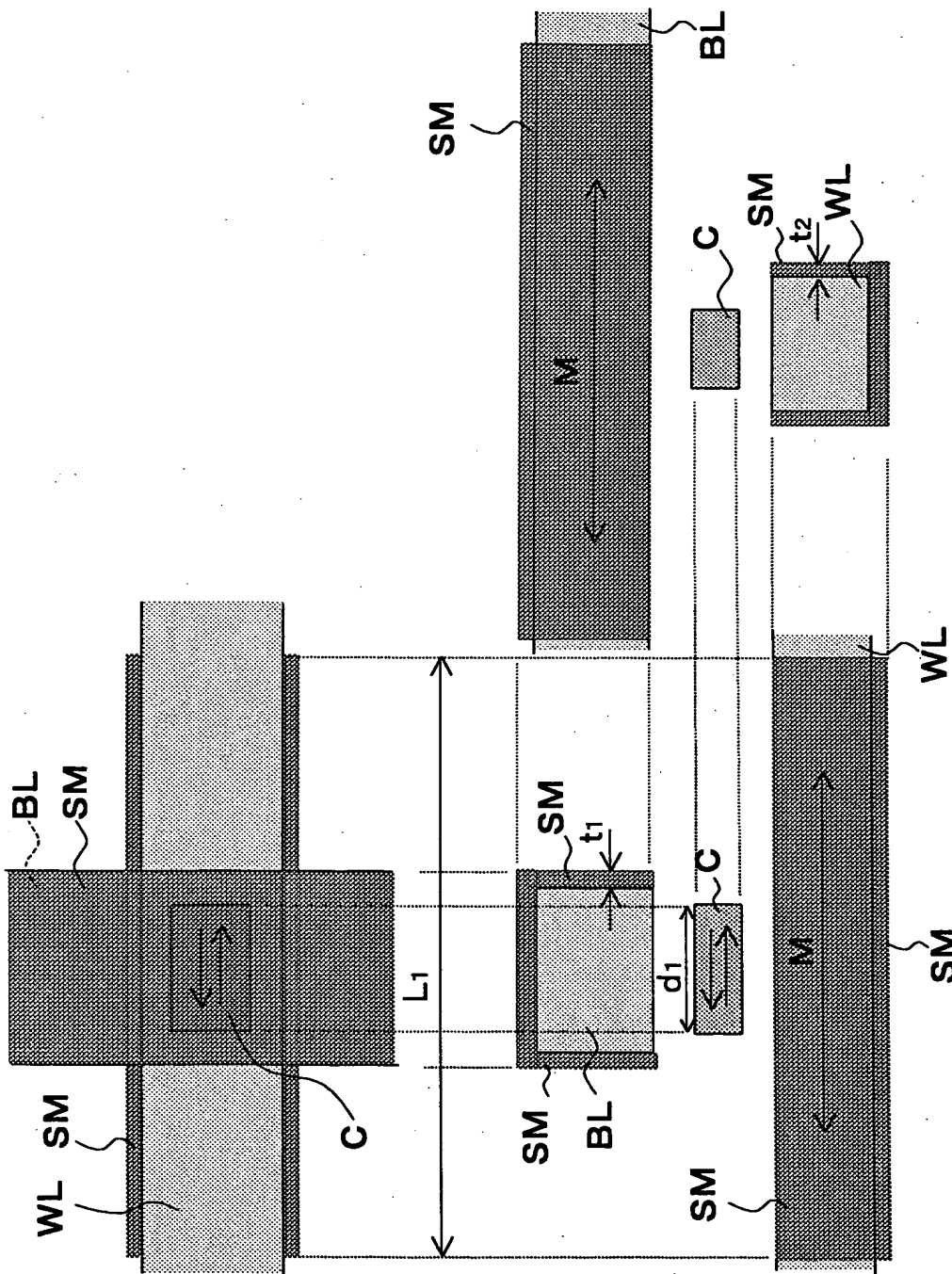


FIG. 1B

FIG. 1A

FIG. 1C

2/38

$$L_1 > (2 \times L_2 + L_3)$$

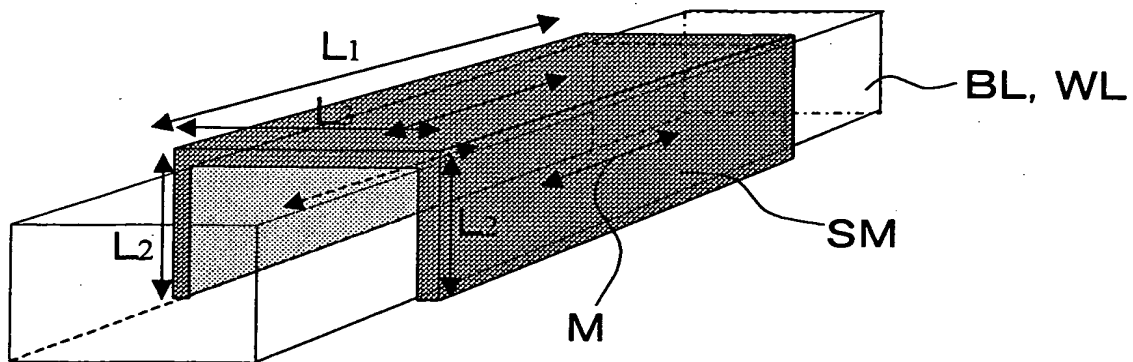


FIG.2

3/38

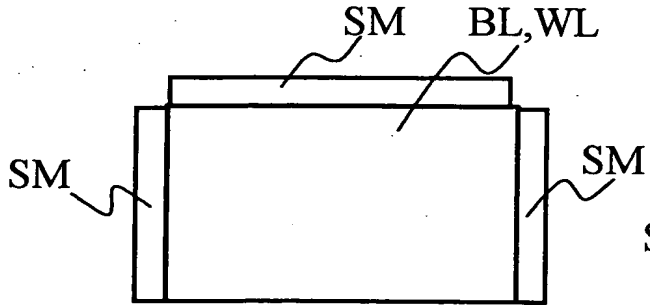


FIG. 3A

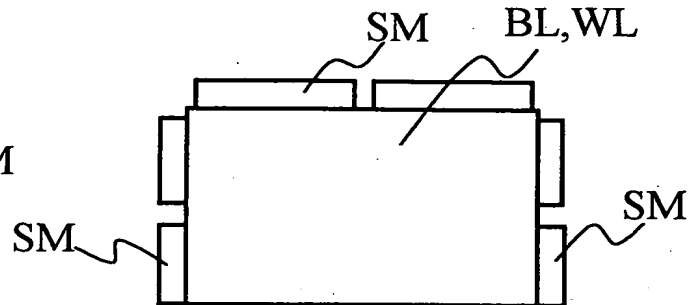


FIG. 3D

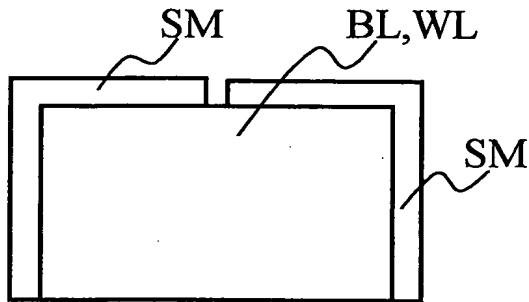


FIG. 3B

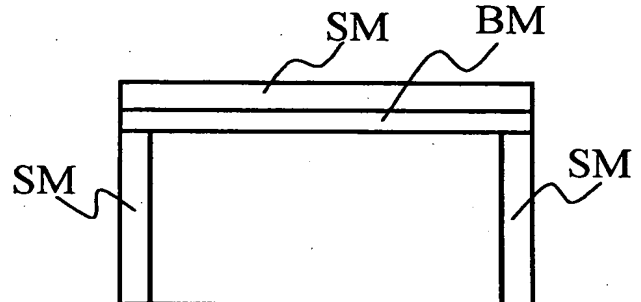


FIG. 3E

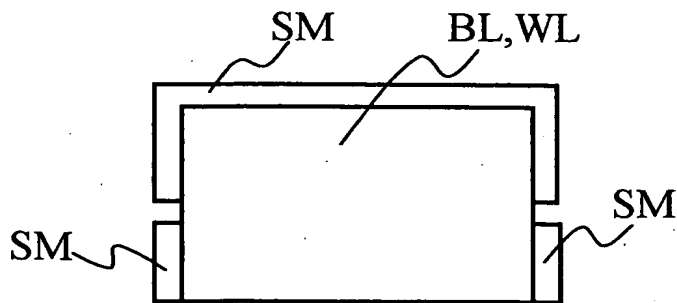


FIG. 3C

4/38

FIG.4A

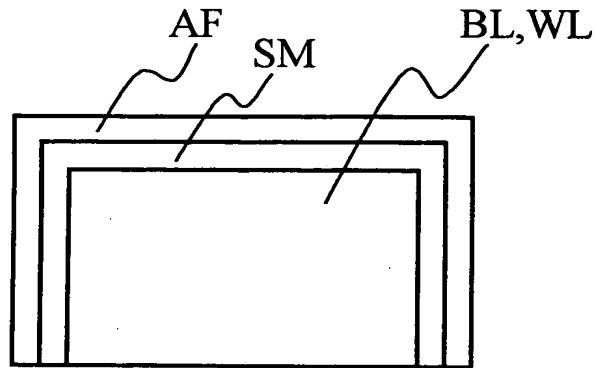


FIG.4B

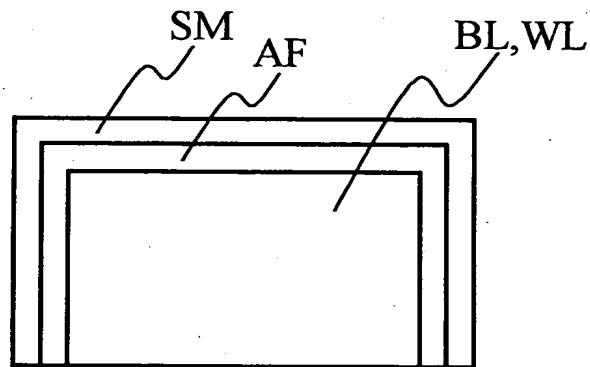


FIG.4C

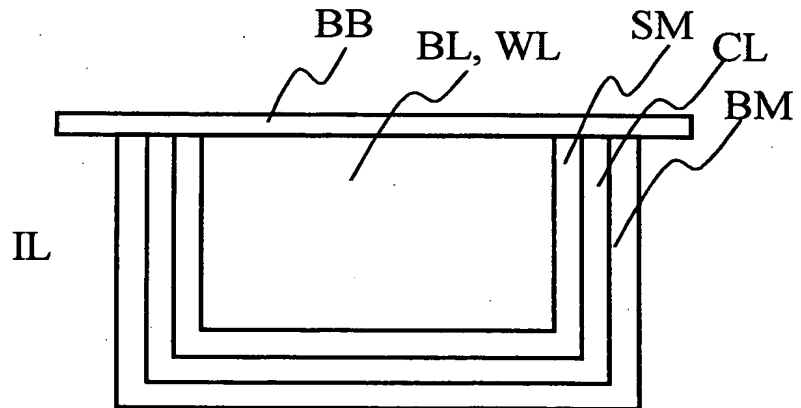
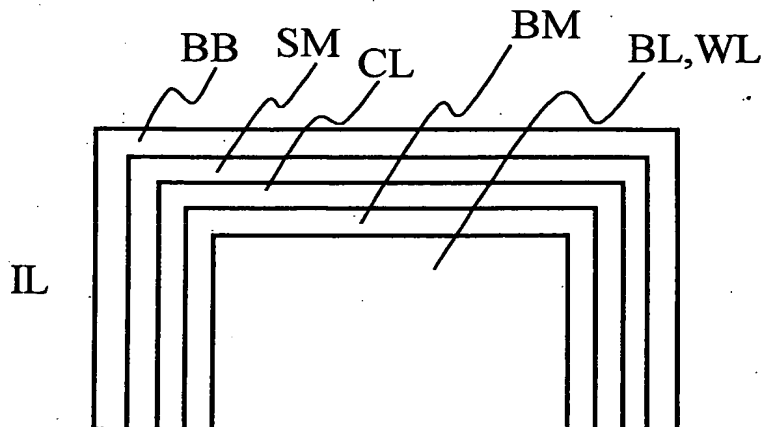


FIG.4D



5/38

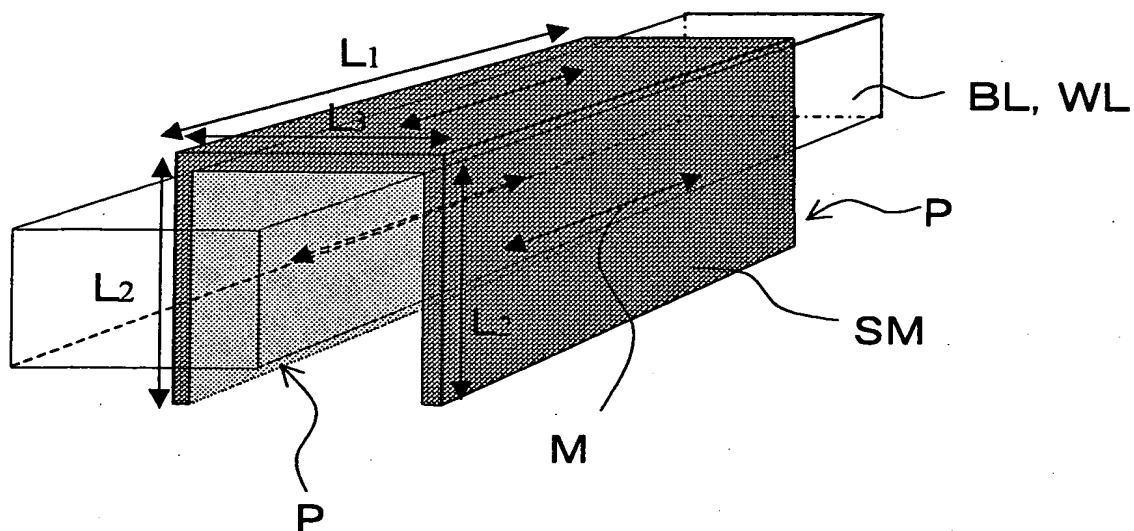


FIG. 5

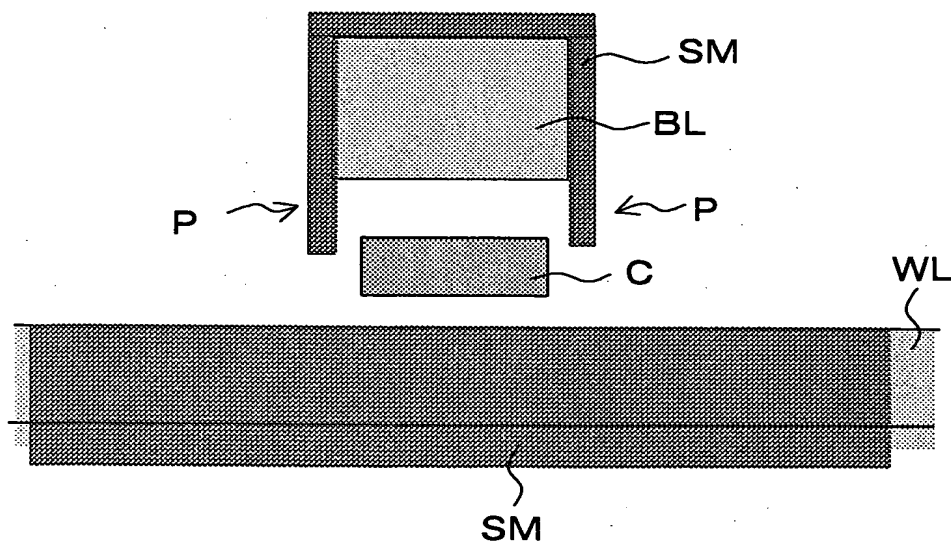


FIG. 6

6/38

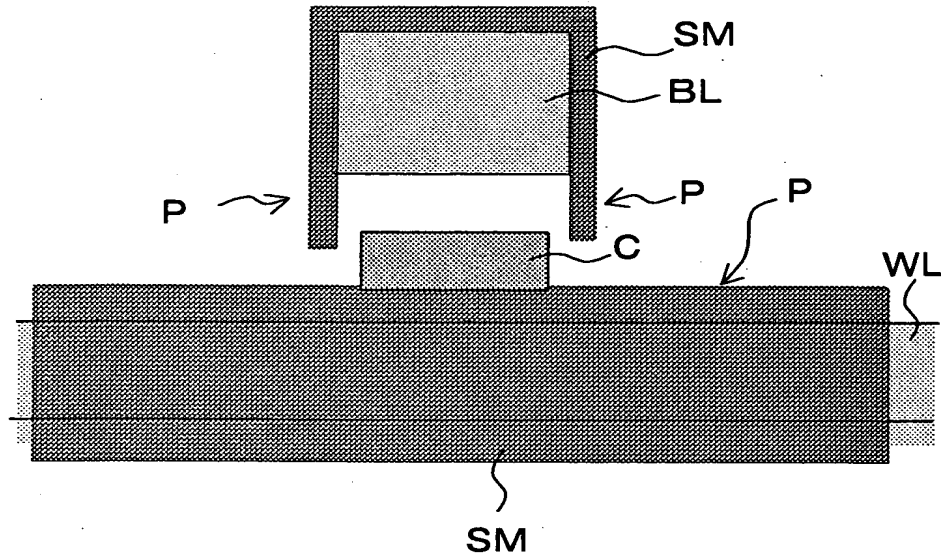


FIG.7

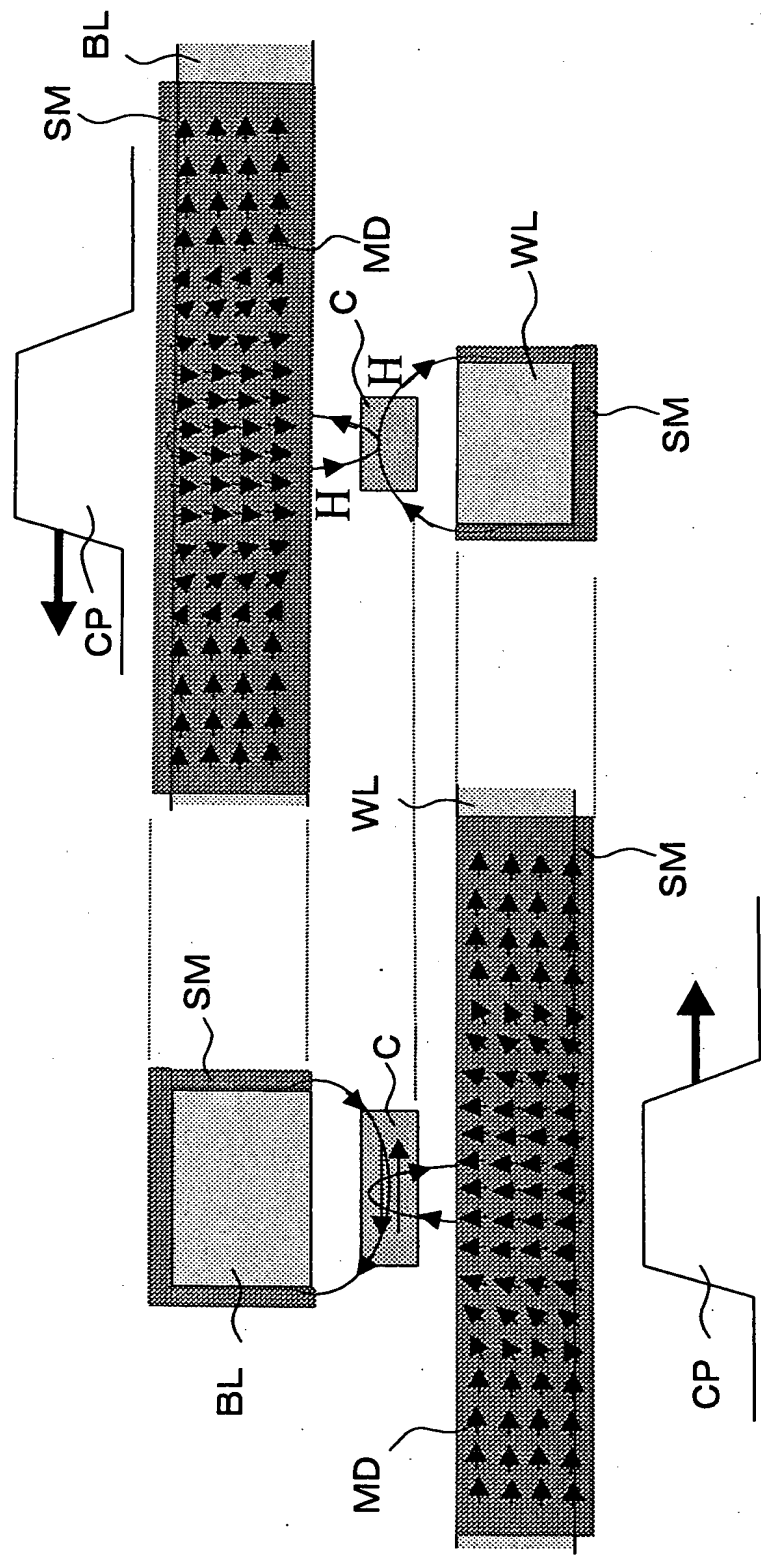


FIG. 8B

FIG. 8A

8/38

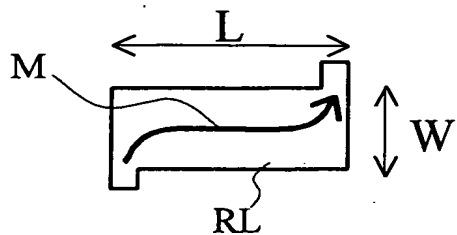


FIG. 9A

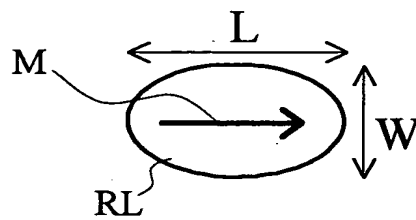


FIG. 9D

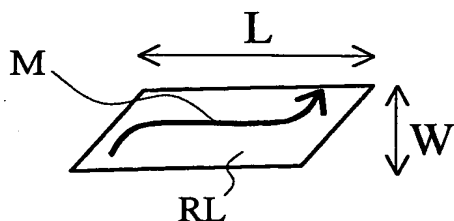


FIG. 9B

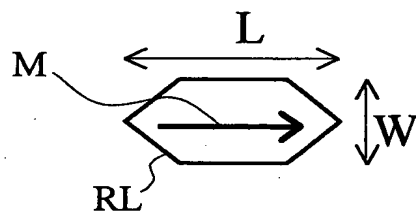


FIG. 9E

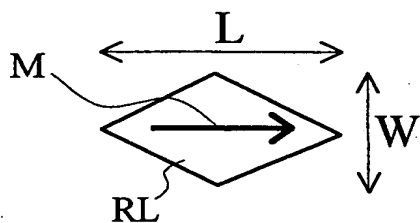


FIG. 9C

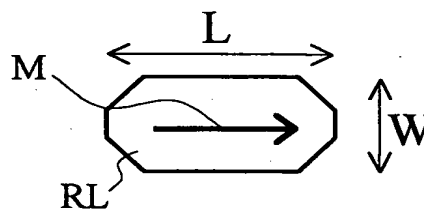


FIG. 9F

9/38

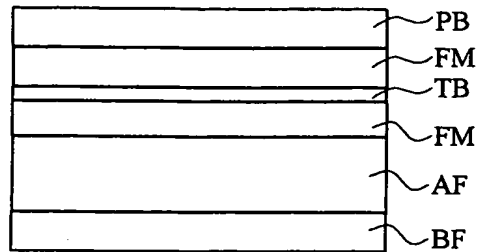


FIG. 10

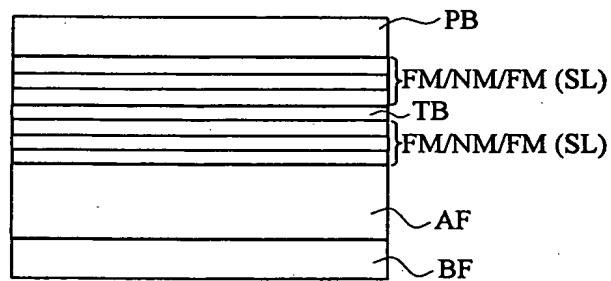


FIG. 11

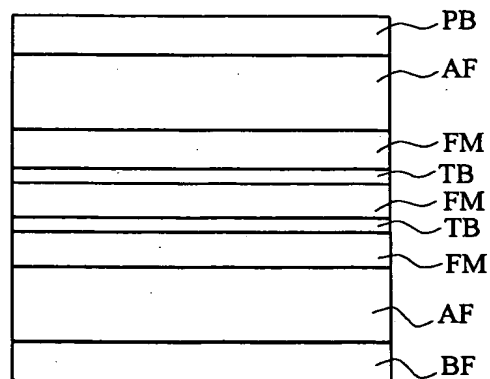


FIG. 12

10/38

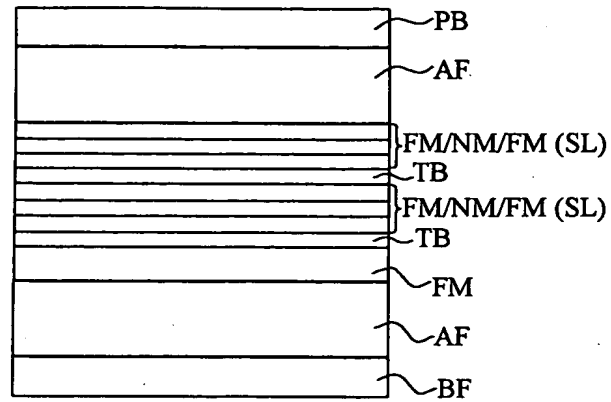


FIG.13

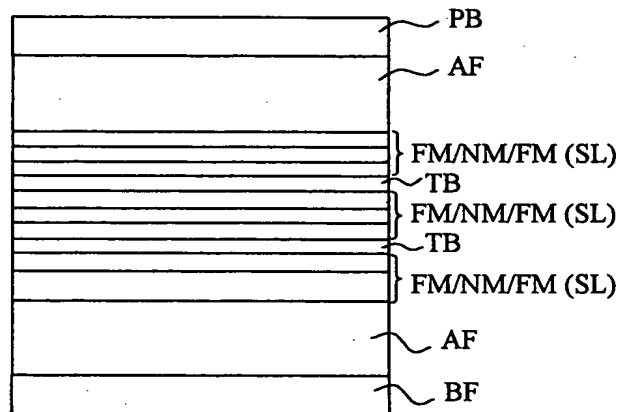


FIG.14

11/38

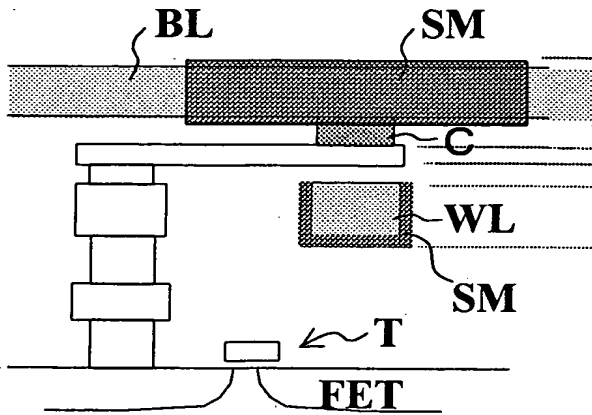


FIG. 15A

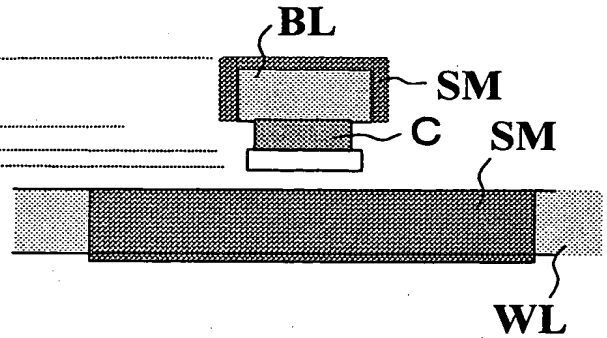


FIG. 15B

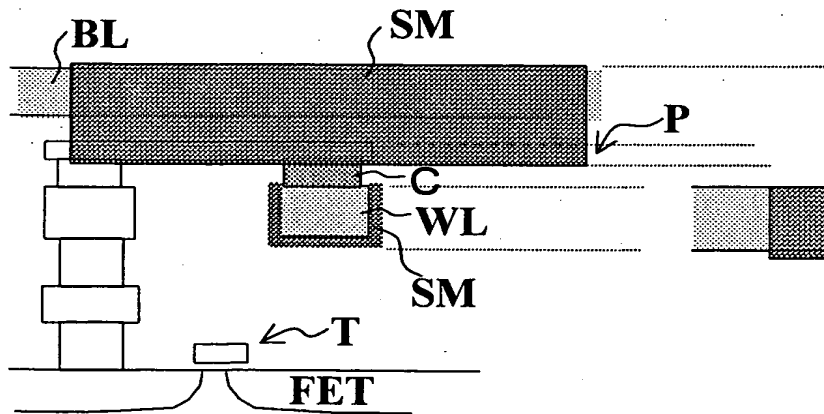


FIG. 16A

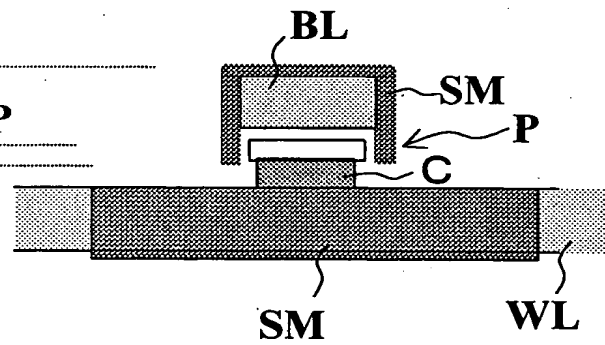


FIG. 16B

12/38

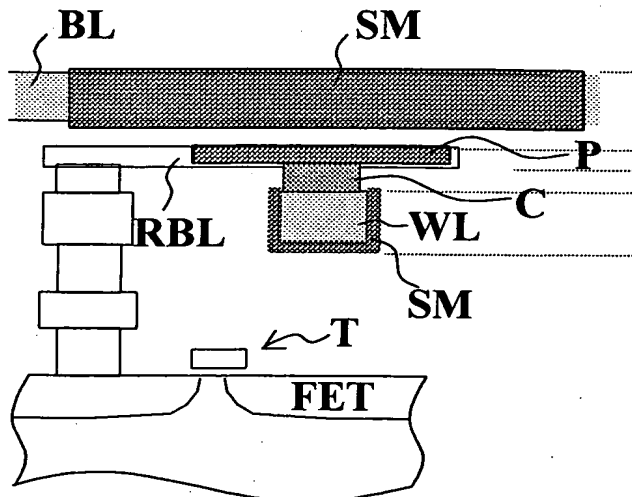


FIG. 17A

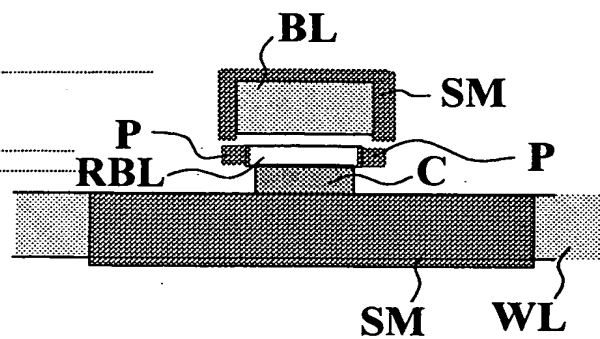


FIG. 17B

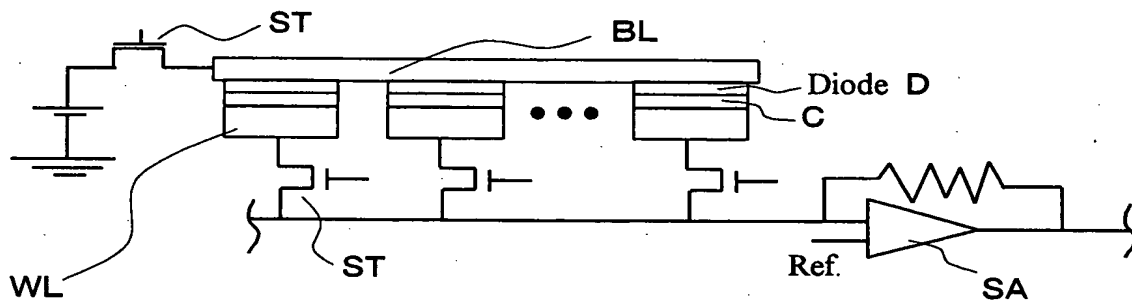


FIG. 18

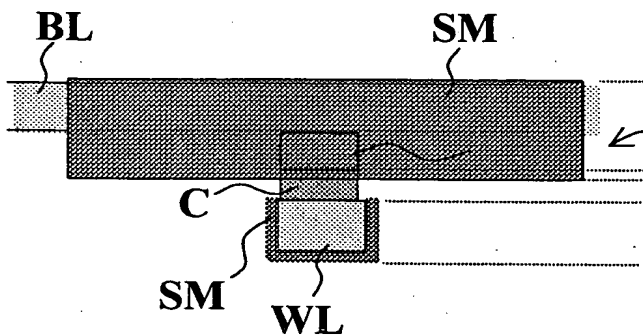


FIG. 19A

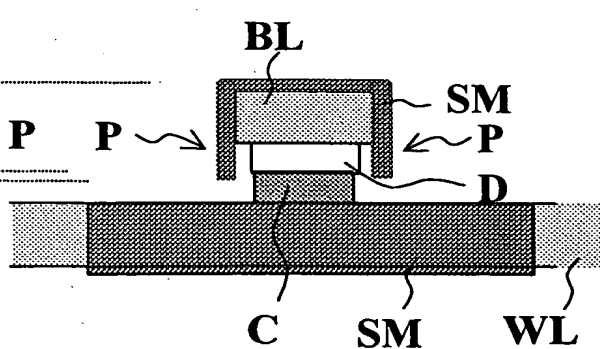
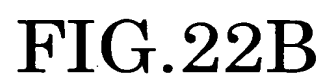
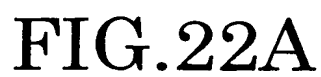
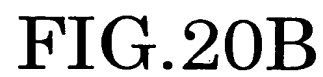
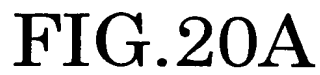


FIG. 19B



14/38

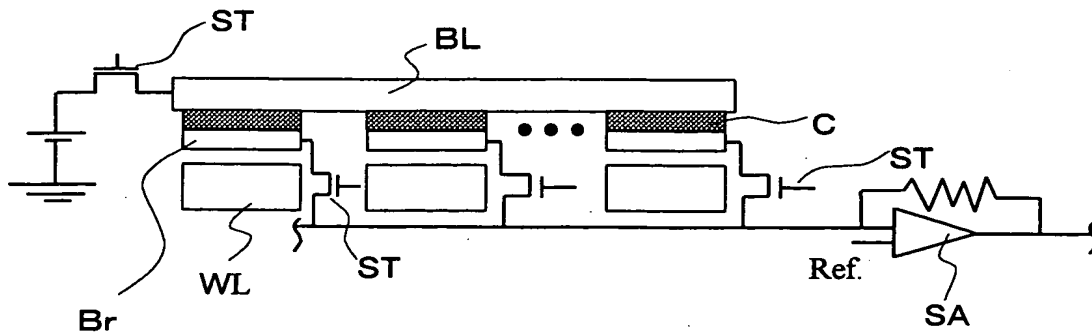


FIG. 23

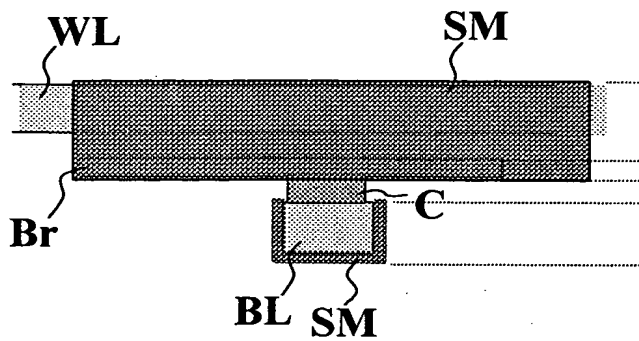


FIG. 24A

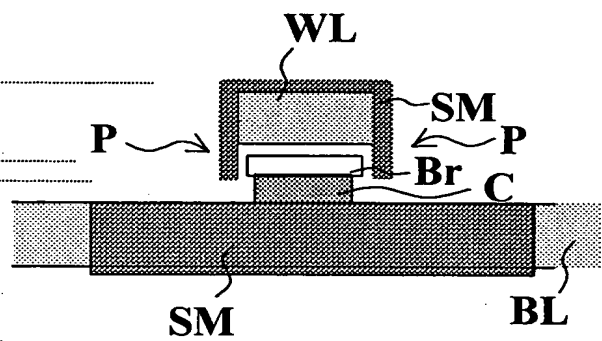


FIG. 24B

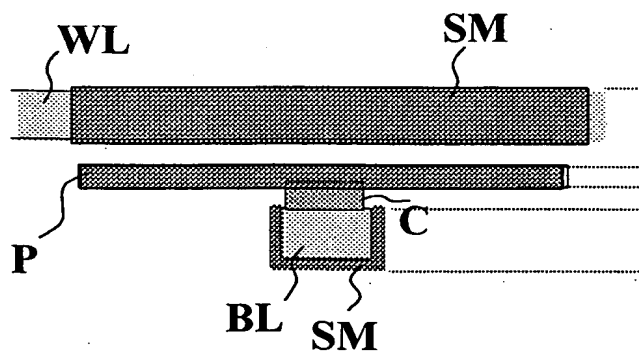


FIG. 25A

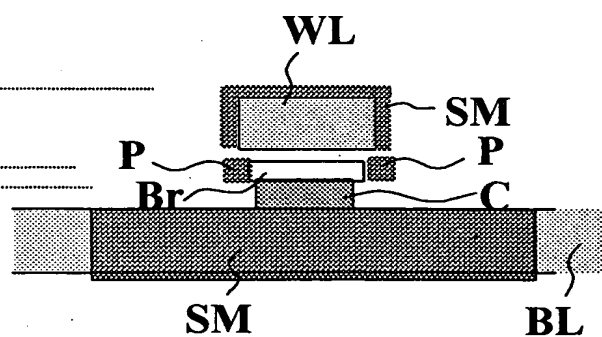


FIG. 25B

15/38

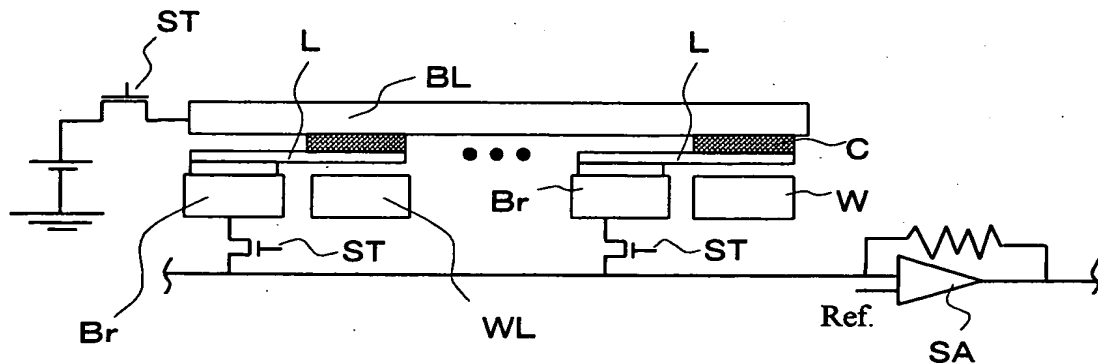


FIG. 26

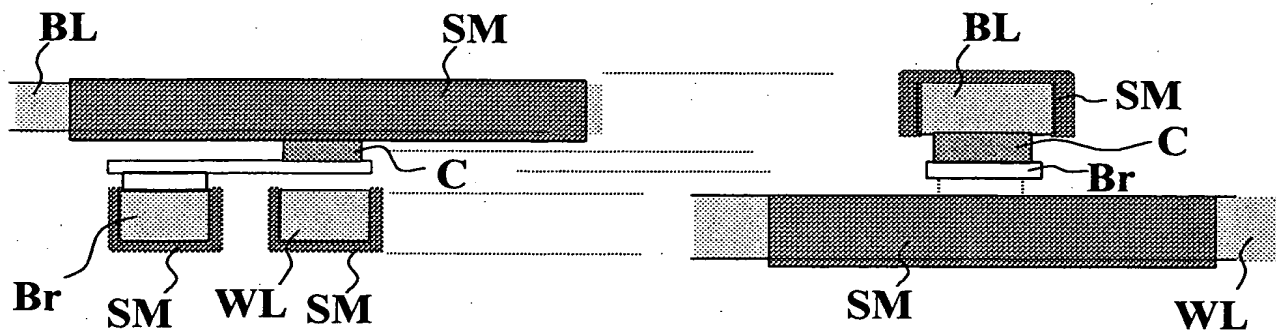


FIG. 27A

FIG. 27B

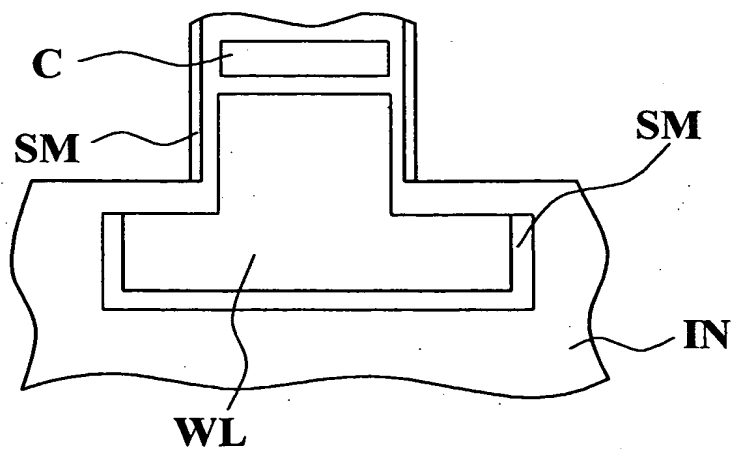


FIG. 28

16/38

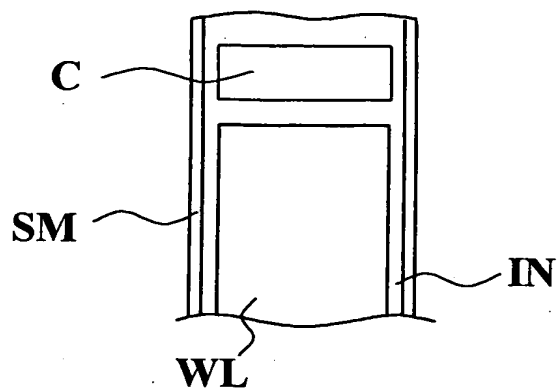


FIG. 29

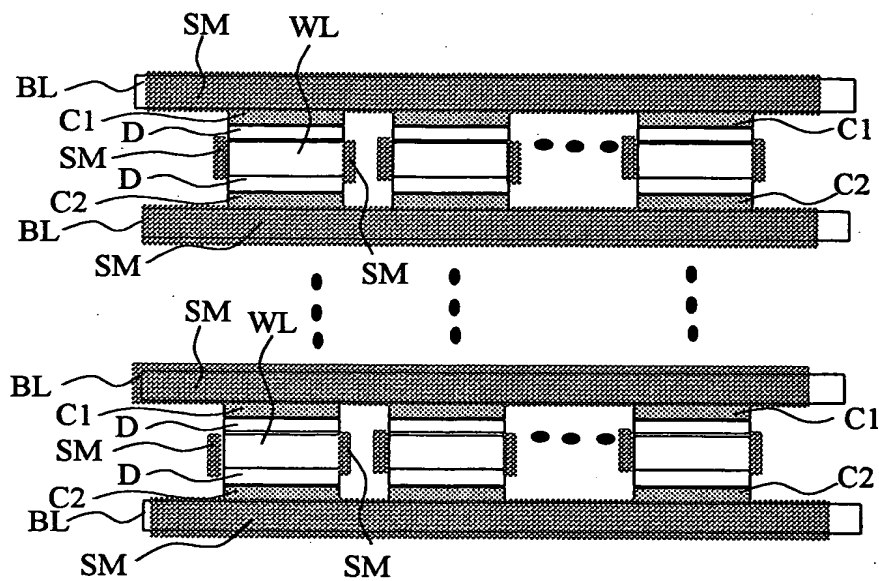


FIG. 30

17/38

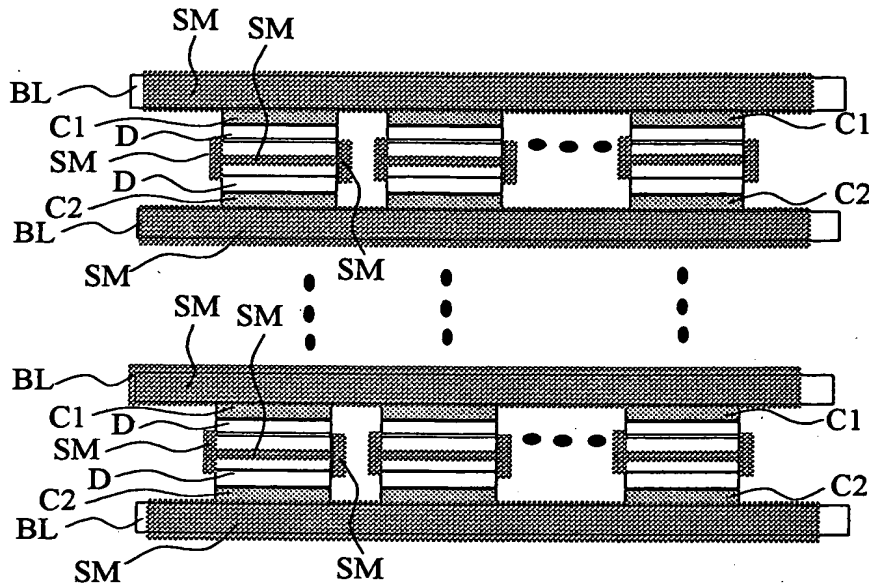


FIG. 31

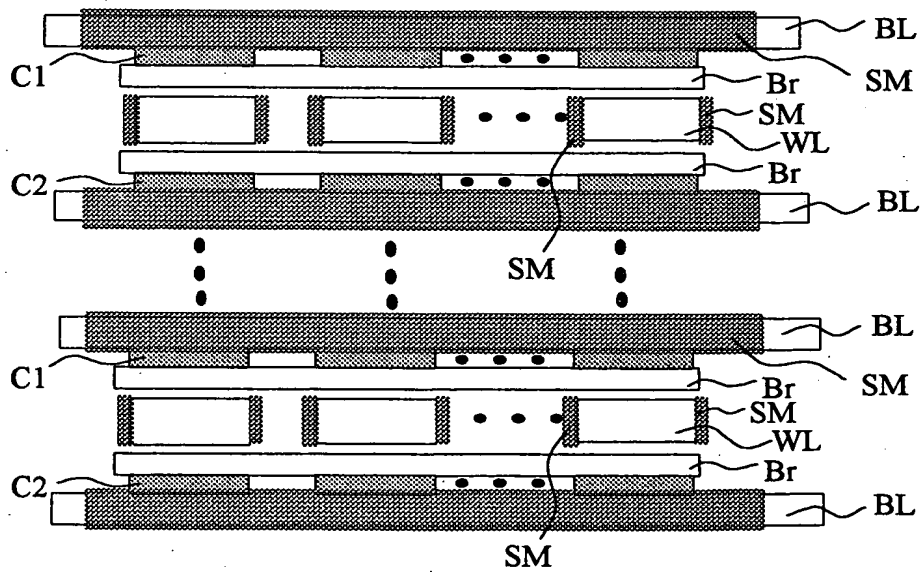


FIG. 32

18/38

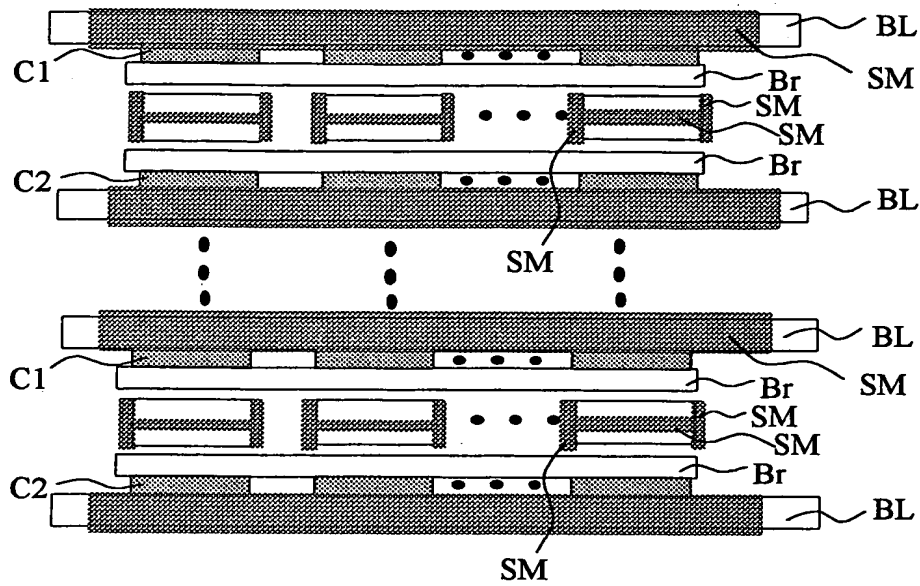


FIG. 33

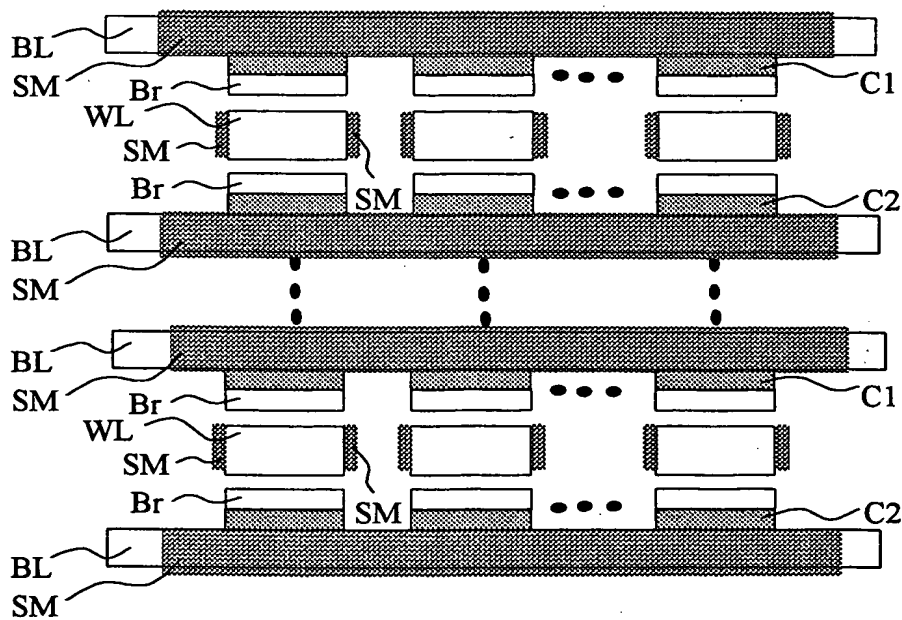


FIG. 34

19/38

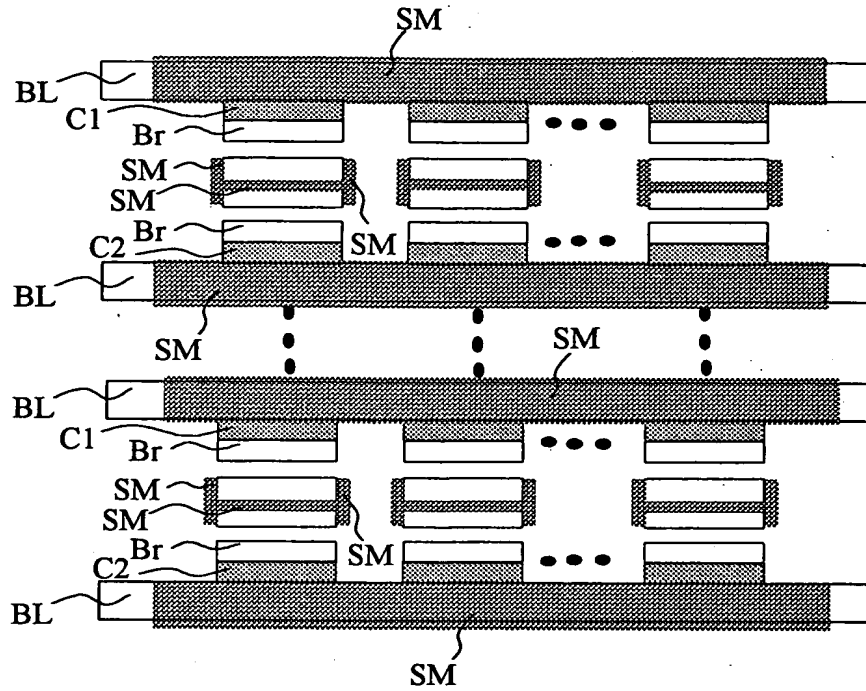


FIG. 35

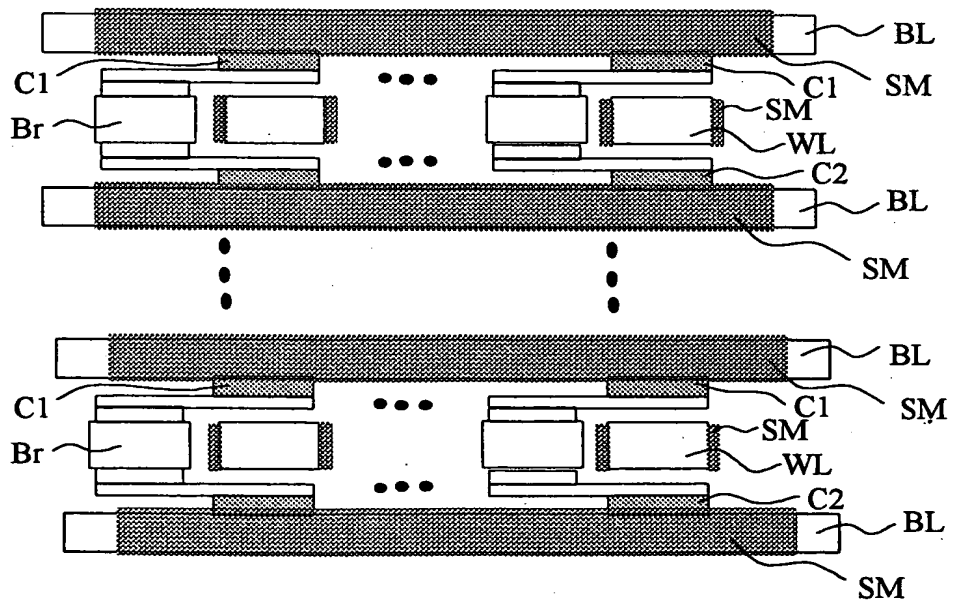


FIG. 36

20/38

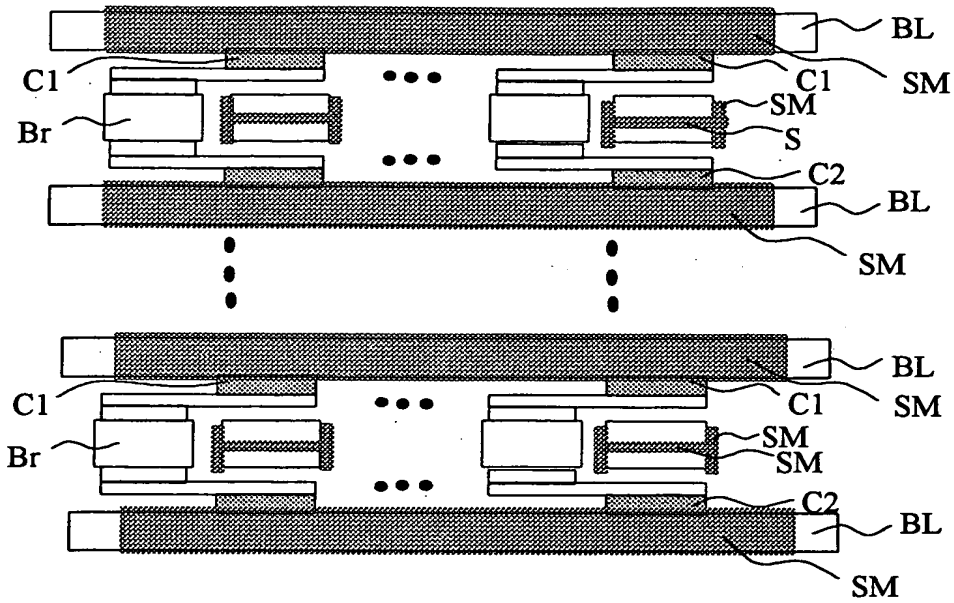


FIG.37

21/38

Thickness t of SM (μ m)	Longer axis of TMR (μ m)	L3 (μ m)	L1 (μ m)	Defect of operation
0.01	0.3	0.45	0.3	YES
0.02	0.3	0.45	0.3	YES
0.04	0.3	0.45	0.3	YES
0.06	0.3	0.45	0.3	YES
0.01	0.45	0.6	0.45	YES
0.02	0.45	0.6	0.45	YES
0.04	0.45	0.6	0.45	YES
0.06	0.45	0.6	0.45	YES
0.01	0.6	0.75	0.6	YES
0.02	0.6	0.75	0.6	YES
0.04	0.6	0.75	0.6	YES
0.06	0.6	0.75	0.6	YES
0.01	0.8	0.95	0.8	YES
0.02	0.8	0.95	0.8	YES
0.04	0.8	0.95	0.8	YES
0.06	0.8	0.95	0.8	YES
0.01	0.3	0.45	0.5	YES
0.02	0.3	0.45	0.5	YES
0.04	0.3	0.45	0.5	YES
0.06	0.3	0.45	0.5	YES
0.01	0.45	0.6	0.65	YES
0.02	0.45	0.6	0.65	YES
0.04	0.45	0.6	0.65	YES
0.06	0.45	0.6	0.65	YES
0.01	0.6	0.75	0.8	YES
0.02	0.6	0.75	0.8	YES
0.04	0.6	0.75	0.8	YES
0.06	0.6	0.75	0.8	YES
0.01	0.8	0.95	1	YES
0.02	0.8	0.95	1	YES
0.04	0.8	0.95	1	YES
0.06	0.8	0.95	1	YES

FIG.38

22/38

Thickness t of SM (μ m)	Longer axis of TMR (μ m)	L3 (μ m)	L1 (μ m)	Defect of operation
0.01	0.3	0.45	0.7	YES
0.02	0.3	0.45	0.7	YES
0.04	0.3	0.45	0.7	YES
0.06	0.3	0.45	0.7	YES
0.01	0.45	0.6	0.85	YES
0.02	0.45	0.6	0.85	YES
0.04	0.45	0.6	0.85	YES
0.06	0.45	0.6	0.85	YES
0.01	0.6	0.75	1	YES
0.02	0.6	0.75	1	YES
0.04	0.6	0.75	1	YES
0.06	0.6	0.75	1	YES
0.01	0.8	0.95	1.2	YES
0.02	0.8	0.95	1.2	YES
0.04	0.8	0.95	1.2	YES
0.06	0.8	0.95	1.2	YES
0.01	0.3	0.45	0.9	YES
0.02	0.3	0.45	0.9	YES
0.04	0.3	0.45	0.9	YES
0.06	0.3	0.45	0.9	YES
0.01	0.45	0.6	1.05	NO
0.02	0.45	0.6	1.05	NO
0.04	0.45	0.6	1.05	NO
0.06	0.45	0.6	1.05	YES
0.01	0.6	0.75	1.2	YES
0.02	0.6	0.75	1.2	YES
0.04	0.6	0.75	1.2	YES
0.06	0.6	0.75	1.2	YES
0.01	0.8	0.95	1.4	YES
0.02	0.8	0.95	1.4	YES
0.04	0.8	0.95	1.4	YES
0.06	0.8	0.95	1.4	YES

FIG.39

23/38

Thickness t of SM (μ m)	Longer axis of TMR (μ m)	L3 (μ m)	L1 (μ m)	Defect of operation
0.01	0.3	0.45	1.1	NO
0.02	0.3	0.45	1.1	NO
0.04	0.3	0.45	1.1	NO
0.06	0.3	0.45	1.1	YES
0.01	0.45	0.6	1.25	NO
0.02	0.45	0.6	1.25	NO
0.04	0.45	0.6	1.25	NO
0.06	0.45	0.6	1.25	YES
0.01	0.6	0.75	1.4	NO
0.02	0.6	0.75	1.4	YES
0.04	0.6	0.75	1.4	YES
0.06	0.6	0.75	1.4	YES
0.01	0.8	0.95	1.6	YES
0.02	0.8	0.95	1.6	YES
0.04	0.8	0.95	1.6	YES
0.06	0.8	0.95	1.6	YES
0.01	0.3	0.45	1.45	NO
0.02	0.3	0.45	1.45	NO
0.04	0.3	0.45	1.45	NO
0.06	0.3	0.45	1.45	YES
0.01	0.45	0.6	1.6	NO
0.02	0.45	0.6	1.6	NO
0.04	0.45	0.6	1.6	NO
0.06	0.45	0.6	1.6	YES
0.01	0.6	0.75	1.8	YES
0.02	0.6	0.75	1.8	YES
0.04	0.6	0.75	1.8	NO
0.06	0.6	0.75	1.8	YES
0.01	0.8	0.95	1.5	YES
0.02	0.8	0.95	1.5	YES
0.04	0.8	0.95	1.5	YES
0.06	0.8	0.95	1.5	YES

FIG.40

24/38

Thickness t of SM (μ m)	Longer axis of TMR (μ m)	L3 (μ m)	L1 (μ m)	Defect of operation
0.01	0.3	0.45	1.7	NO
0.02	0.3	0.45	1.7	NO
0.04	0.3	0.45	1.7	NO
0.06	0.3	0.45	1.7	YES
0.01	0.45	0.6	1.85	NO
0.02	0.45	0.6	1.85	NO
0.04	0.45	0.6	1.85	NO
0.06	0.45	0.6	1.85	YES
0.01	0.6	0.75	2	YES
0.02	0.6	0.75	2	YES
0.04	0.6	0.75	2	YES
0.06	0.6	0.75	2	YES
0.01	0.3	0.45	2	NO
0.02	0.3	0.45	2	NO
0.04	0.3	0.45	2	NO
0.06	0.3	0.45	2	YES
0.01	0.45	0.6	2	NO
0.02	0.45	0.6	2	NO
0.04	0.45	0.6	2	NO
0.06	0.45	0.6	2	YES

FIG.41

25/38

Thickness t of SM (μ m)	Longer axis of TMR (μ m)	L3 (μ m)	L1 (μ m)	Defect of operation
0.01	0.3	0.45	0.3	YES
0.02	0.3	0.45	0.3	NO
0.04	0.3	0.45	0.3	NO
0.06	0.3	0.45	0.3	NO
0.01	0.45	0.6	0.45	YES
0.02	0.45	0.6	0.45	NO
0.04	0.45	0.6	0.45	NO
0.06	0.45	0.6	0.45	NO
0.01	0.6	0.75	0.6	YES
0.02	0.6	0.75	0.6	NO
0.04	0.6	0.75	0.6	NO
0.06	0.6	0.75	0.6	NO
0.01	0.8	0.95	0.8	NO
0.02	0.8	0.95	0.8	NO
0.04	0.8	0.95	0.8	NO
0.06	0.8	0.95	0.8	YES
0.01	0.3	0.45	0.5	NO
0.02	0.3	0.45	0.5	NO
0.04	0.3	0.45	0.5	NO
0.06	0.3	0.45	0.5	YES

FIG.42

26/38

Thickness t of SM (μ m)	Longer axis of TMR (μ m)	L3 (μ m)	L1 (μ m)	Defect of operation
0.01	0.3	0.45	0.7	YES
0.02	0.3	0.45	0.7	NO
0.04	0.3	0.45	0.7	NO
0.06	0.3	0.45	0.7	NO
0.01	0.45	0.6	0.85	NO
0.02	0.45	0.6	0.85	NO
0.04	0.45	0.6	0.85	NO
0.06	0.45	0.6	0.85	YES
0.01	0.6	0.75	1	NO
0.02	0.6	0.75	1	NO
0.04	0.6	0.75	1	NO
0.06	0.6	0.75	1	YES
0.01	0.8	0.95	1.2	NO
0.02	0.8	0.95	1.2	NO
0.04	0.8	0.95	1.2	NO
0.06	0.8	0.95	1.2	NO
0.01	0.3	0.45	0.9	NO
0.02	0.3	0.45	0.9	NO
0.04	0.3	0.45	0.9	NO
0.06	0.3	0.45	0.9	YES

FIG.43

27/38

Thickness t of SM (μ m)	Longer axis of TMR (μ m)	L3 (μ m)	L1 (μ m)	Defect of operation
0.01	0.3	0.45	1.1	NO
0.02	0.3	0.45	1.1	NO
0.04	0.3	0.45	1.1	NO
0.06	0.3	0.45	1.1	YES
0.01	0.45	0.6	1.25	NO
0.02	0.45	0.6	1.25	NO
0.04	0.45	0.6	1.25	NO
0.06	0.45	0.6	1.25	NO
0.01	0.6	0.75	1.4	NO
0.02	0.6	0.75	1.4	NO
0.04	0.6	0.75	1.4	YES
0.06	0.6	0.75	1.4	NO
0.01	0.8	0.95	1.6	YES
0.02	0.8	0.95	1.6	NO
0.04	0.8	0.95	1.6	NO
0.06	0.8	0.95	1.6	NO
0.01	0.3	0.45	1.45	NO
0.02	0.3	0.45	1.45	NO
0.04	0.3	0.45	1.45	NO
0.06	0.3	0.45	1.45	YES

FIG.44

28/38

Thickness t of SM (μ m)	Longer axis of TMR (μ m)	L3 (μ m)	L1 (μ m)	Defect of operation
0.01	0.3	0.45	1.1	YES
0.02	0.3	0.45	1.1	YES
0.04	0.3	0.45	1.1	YES
0.06	0.3	0.45	1.1	YES
0.01	0.45	0.6	1.25	YES
0.02	0.45	0.6	1.25	YES
0.04	0.45	0.6	1.25	YES
0.06	0.45	0.6	1.25	YES
0.01	0.6	0.75	1.4	YES
0.02	0.6	0.75	1.4	YES
0.04	0.6	0.75	1.4	YES
0.06	0.6	0.75	1.4	YES
0.01	0.8	0.95	1.6	YES
0.02	0.8	0.95	1.6	YES
0.04	0.8	0.95	1.6	YES
0.06	0.8	0.95	1.6	YES
0.01	0.3	0.45	1.45	NO
0.02	0.3	0.45	1.45	YES
0.04	0.3	0.45	1.45	YES
0.06	0.3	0.45	1.45	YES
0.01	0.45	0.6	1.6	NO
0.02	0.45	0.6	1.6	NO
0.04	0.45	0.6	1.6	YES
0.06	0.45	0.6	1.6	YES
0.01	0.6	0.75	1.8	YES
0.02	0.6	0.75	1.8	YES
0.04	0.6	0.75	1.8	YES
0.06	0.6	0.75	1.8	YES
0.01	0.8	0.95	1.5	YES
0.02	0.8	0.95	1.5	YES
0.04	0.8	0.95	1.5	YES
0.06	0.8	0.95	1.5	YES

FIG.45

29/38

Thickness t of SM (μ m)	Longer axis of TMR (μ m)	L3 (μ m)	L1 (μ m)	Defect of operation
0.01	0.3	0.45	1.7	YES
0.02	0.3	0.45	1.7	YES
0.04	0.3	0.45	1.7	YES
0.06	0.3	0.45	1.7	YES
0.01	0.45	0.6	1.85	NO
0.02	0.45	0.6	1.85	NO
0.04	0.45	0.6	1.85	YES
0.06	0.45	0.6	1.85	YES
0.01	0.6	0.75	2	NO
0.02	0.6	0.75	2	YES
0.04	0.6	0.75	2	YES
0.06	0.6	0.75	2	YES
0.01	0.3	0.45	2	NO
0.02	0.3	0.45	2	NO
0.04	0.3	0.45	2	YES
0.06	0.3	0.45	2	YES
0.01	0.45	0.6	2	NO
0.02	0.45	0.6	2	NO
0.04	0.45	0.6	2	YES
0.06	0.45	0.6	2	YES

FIG.46

30/38

Thickness t of SM (μ m)	Longer axis of TMR (μ m)	L3 (μ m)	L1 (μ m)	Defect of operation
0.01	0.3	0.45	0.3	YES
0.02	0.3	0.45	0.3	YES
0.04	0.3	0.45	0.3	YES
0.06	0.3	0.45	0.3	YES
0.01	0.45	0.6	0.45	YES
0.02	0.45	0.6	0.45	YES
0.04	0.45	0.6	0.45	YES
0.06	0.45	0.6	0.45	YES
0.01	0.6	0.75	0.6	YES
0.02	0.6	0.75	0.6	YES
0.04	0.6	0.75	0.6	YES
0.06	0.6	0.75	0.6	YES
0.01	0.8	0.95	0.8	YES
0.02	0.8	0.95	0.8	YES
0.04	0.8	0.95	0.8	YES
0.06	0.8	0.95	0.8	YES
0.01	0.3	0.45	0.5	YES
0.02	0.3	0.45	0.5	YES
0.04	0.3	0.45	0.5	YES
0.06	0.3	0.45	0.5	YES
0.01	0.45	0.6	0.65	YES
0.02	0.45	0.6	0.65	YES
0.04	0.45	0.6	0.65	YES
0.06	0.45	0.6	0.65	YES
0.01	0.6	0.75	0.8	YES
0.02	0.6	0.75	0.8	YES
0.04	0.6	0.75	0.8	YES
0.06	0.6	0.75	0.8	YES
0.01	0.8	0.95	1	YES
0.02	0.8	0.95	1	YES
0.04	0.8	0.95	1	YES
0.06	0.8	0.95	1	YES

FIG.47

31/38

Thickness t of SM (μ m)	Longer axis of TMR (μ m)	L3 (μ m)	L1 (μ m)	Defect of operation
0.01	0.3	0.45	0.7	YES
0.02	0.3	0.45	0.7	YES
0.04	0.3	0.45	0.7	YES
0.06	0.3	0.45	0.7	YES
0.01	0.45	0.6	0.85	YES
0.02	0.45	0.6	0.85	YES
0.04	0.45	0.6	0.85	YES
0.06	0.45	0.6	0.85	YES
0.01	0.6	0.75	1	YES
0.02	0.6	0.75	1	YES
0.04	0.6	0.75	1	YES
0.06	0.6	0.75	1	YES
0.01	0.8	0.95	1.2	YES
0.02	0.8	0.95	1.2	YES
0.04	0.8	0.95	1.2	YES
0.06	0.8	0.95	1.2	YES
0.01	0.3	0.45	0.9	YES
0.02	0.3	0.45	0.9	YES
0.04	0.3	0.45	0.9	YES
0.06	0.3	0.45	0.9	YES
0.01	0.45	0.6	1.05	NO
0.02	0.45	0.6	1.05	NO
0.04	0.45	0.6	1.05	NO
0.06	0.45	0.6	1.05	YES
0.01	0.6	0.75	1.2	YES
0.02	0.6	0.75	1.2	YES
0.04	0.6	0.75	1.2	YES
0.06	0.6	0.75	1.2	YES
0.01	0.8	0.95	1.4	YES
0.02	0.8	0.95	1.4	YES
0.04	0.8	0.95	1.4	YES
0.06	0.8	0.95	1.4	YES

FIG.48

32/38

Thickness t of SM (μ m)	Longer axis of TMR (μ m)	L3 (μ m)	L1 (μ m)	Defect of operation
0.01	0.3	0.45	1.1	NO
0.02	0.3	0.45	1.1	NO
0.04	0.3	0.45	1.1	NO
0.06	0.3	0.45	1.1	YES
0.01	0.45	0.6	1.25	NO
0.02	0.45	0.6	1.25	NO
0.04	0.45	0.6	1.25	NO
0.06	0.45	0.6	1.25	YES
0.01	0.6	0.75	1.4	YES
0.02	0.6	0.75	1.4	YES
0.04	0.6	0.75	1.4	YES
0.06	0.6	0.75	1.4	YES
0.01	0.8	0.95	1.6	YES
0.02	0.8	0.95	1.6	YES
0.04	0.8	0.95	1.6	YES
0.06	0.8	0.95	1.6	YES
0.01	0.3	0.45	1.45	NO
0.02	0.3	0.45	1.45	NO
0.04	0.3	0.45	1.45	NO
0.06	0.3	0.45	1.45	YES
0.01	0.45	0.6	1.6	NO
0.02	0.45	0.6	1.6	NO
0.04	0.45	0.6	1.6	NO
0.06	0.45	0.6	1.6	YES
0.01	0.6	0.75	1.8	YES
0.02	0.6	0.75	1.8	YES
0.04	0.6	0.75	1.8	YES
0.06	0.6	0.75	1.8	YES
0.01	0.8	0.95	1.5	YES
0.02	0.8	0.95	1.5	YES
0.04	0.8	0.95	1.5	YES
0.06	0.8	0.95	1.5	YES

FIG.49

33/38

Thickness t of SM (μ m)	Longer axis of TMR (μ m)	L3 (μ m)	L1 (μ m)	Defect of operation
0.01	0.3	0.45	1.7	NO
0.02	0.3	0.45	1.7	NO
0.04	0.3	0.45	1.7	NO
0.06	0.3	0.45	1.7	YES
0.01	0.45	0.6	1.85	NO
0.02	0.45	0.6	1.85	NO
0.04	0.45	0.6	1.85	NO
0.06	0.45	0.6	1.85	YES
0.01	0.6	0.75	2	YES
0.02	0.6	0.75	2	YES
0.04	0.6	0.75	2	YES
0.06	0.6	0.75	2	YES
0.01	0.3	0.45	2	NO
0.02	0.3	0.45	2	NO
0.04	0.3	0.45	2	NO
0.06	0.3	0.45	2	YES
0.01	0.45	0.6	2	NO
0.02	0.45	0.6	2	NO
0.04	0.45	0.6	2	NO
0.06	0.45	0.6	2	YES

FIG.50

34/38

Thickness t of SM (μ m)	Longer axis of TMR (μ m)	L3 (μ m)	L1 (μ m)	Defect of operation
0.01	0.3	0.45	1.1	YES
0.02	0.3	0.45	1.1	YES
0.04	0.3	0.45	1.1	YES
0.06	0.3	0.45	1.1	YES
0.01	0.45	0.6	1.25	YES
0.02	0.45	0.6	1.25	YES
0.04	0.45	0.6	1.25	YES
0.06	0.45	0.6	1.25	YES
0.01	0.6	0.75	1.4	YES
0.02	0.6	0.75	1.4	YES
0.04	0.6	0.75	1.4	YES
0.06	0.6	0.75	1.4	YES
0.01	0.8	0.95	1.6	YES
0.02	0.8	0.95	1.6	YES
0.04	0.8	0.95	1.6	YES
0.06	0.8	0.95	1.6	YES
0.01	0.3	0.45	1.45	NO
0.02	0.3	0.45	1.45	YES
0.04	0.3	0.45	1.45	YES
0.06	0.3	0.45	1.45	YES
0.01	0.45	0.6	1.6	NO
0.02	0.45	0.6	1.6	NO
0.04	0.45	0.6	1.6	YES
0.06	0.45	0.6	1.6	YES
0.01	0.6	0.75	1.8	YES
0.02	0.6	0.75	1.8	YES
0.04	0.6	0.75	1.8	YES
0.06	0.6	0.75	1.8	YES
0.01	0.8	0.95	1.5	YES
0.02	0.8	0.95	1.5	YES
0.04	0.8	0.95	1.5	YES
0.06	0.8	0.95	1.5	YES

FIG.51

35/38

Thickness t of SM (μ m)	Longer axis of TMR (μ m)	L3 (μ m)	L1 (μ m)	Defect of operation
0.01	0.3	0.45	1.7	YES
0.02	0.3	0.45	1.7	YES
0.04	0.3	0.45	1.7	YES
0.06	0.3	0.45	1.7	YES
0.01	0.45	0.6	1.85	NO
0.02	0.45	0.6	1.85	NO
0.04	0.45	0.6	1.85	YES
0.06	0.45	0.6	1.85	YES
0.01	0.6	0.75	2	NO
0.02	0.6	0.75	2	YES
0.04	0.6	0.75	2	YES
0.06	0.6	0.75	2	YES
0.01	0.3	0.45	2	NO
0.02	0.3	0.45	2	NO
0.04	0.3	0.45	2	YES
0.06	0.3	0.45	2	YES
0.01	0.45	0.6	2	NO
0.02	0.45	0.6	2	NO
0.04	0.45	0.6	2	YES
0.06	0.45	0.6	2	YES

FIG.52

36/38

Thickness t of SM (μ m)	Longer axis of TMR (μ m)	L3 (μ m)	L1 (μ m)	Defect of operation
0.01	0.3	0.45	0.3	YES
0.02	0.3	0.45	0.3	YES
0.04	0.3	0.45	0.3	YES
0.06	0.3	0.45	0.3	NO
0.01	0.45	0.6	0.45	YES
0.02	0.45	0.6	0.45	NO
0.04	0.45	0.6	0.45	NO
0.06	0.45	0.6	0.45	YES
0.01	0.6	0.75	0.6	NO
0.02	0.6	0.75	0.6	NO
0.04	0.6	0.75	0.6	NO
0.06	0.6	0.75	0.6	YES
0.01	0.8	0.95	0.8	NO
0.02	0.8	0.95	0.8	NO
0.04	0.8	0.95	0.8	NO
0.06	0.8	0.95	0.8	YES
0.01	0.3	0.45	0.5	NO
0.02	0.3	0.45	0.5	NO
0.04	0.3	0.45	0.5	NO
0.06	0.3	0.45	0.5	YES
0.01	0.45	0.6	0.65	YES
0.02	0.45	0.6	0.65	NO
0.04	0.45	0.6	0.65	NO
0.06	0.45	0.6	0.65	NO

FIG.53

37/38

Thickness t of SM (μ m)	Longer axis of TMR (μ m)	L3 (μ m)	L1 (μ m)	Defect of operation
0.01	0.3	0.45	0.7	YES
0.02	0.3	0.45	0.7	NO
0.04	0.3	0.45	0.7	YES
0.06	0.3	0.45	0.7	YES
0.01	0.45	0.6	0.85	NO
0.02	0.45	0.6	0.85	NO
0.04	0.45	0.6	0.85	NO
0.06	0.45	0.6	0.85	YES
0.01	0.6	0.75	1	NO
0.02	0.6	0.75	1	YES
0.04	0.6	0.75	1	NO
0.06	0.6	0.75	1	YES
0.01	0.8	0.95	1.2	NO
0.02	0.8	0.95	1.2	NO
0.04	0.8	0.95	1.2	NO
0.06	0.8	0.95	1.2	YES
0.01	0.3	0.45	0.9	NO
0.02	0.3	0.45	0.9	NO
0.04	0.3	0.45	0.9	NO
0.06	0.3	0.45	0.9	NO
0.01	0.45	0.6	1.05	NO
0.02	0.45	0.6	1.05	NO
0.04	0.45	0.6	1.05	NO
0.06	0.45	0.6	1.05	NO

FIG.54

38/38

Thickness t of SM (μ m)	Longer axis of TMR (μ m)	L3 (μ m)	L1 (μ m)	Defect of operation
0.01	0.3	0.45	1.1	NO
0.02	0.3	0.45	1.1	NO
0.04	0.3	0.45	1.1	NO
0.06	0.3	0.45	1.1	YES
0.01	0.45	0.6	1.25	NO
0.02	0.45	0.6	1.25	NO
0.04	0.45	0.6	1.25	NO
0.06	0.45	0.6	1.25	YES
0.01	0.6	0.75	1.4	NO
0.02	0.6	0.75	1.4	NO
0.04	0.6	0.75	1.4	NO
0.06	0.6	0.75	1.4	NO
0.01	0.8	0.95	1.6	NO
0.02	0.8	0.95	1.6	NO
0.04	0.8	0.95	1.6	NO
0.06	0.8	0.95	1.6	NO
0.01	0.3	0.45	1.45	NO
0.02	0.3	0.45	1.45	NO
0.04	0.3	0.45	1.45	NO
0.06	0.3	0.45	1.45	NO
0.01	0.45	0.6	1.6	NO
0.02	0.45	0.6	1.6	NO
0.04	0.45	0.6	1.6	NO
0.06	0.45	0.6	1.6	NO

FIG.55